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BLLRC 7.4V 3000mAh 15C 2S Li-ion Battery with SM-3P Plug

BLLRC 7.4V 3000mAh Li-ion Battery User Manual

Model: 7.4V 3000mAh 15C 2S Li-ion Battery with SM-3P Plug
Brand: BLLRC

1. Introduction

This manual provides essential information for the safe and efficient use of your BLLRC 7.4V 3000mAh Li-ion Battery with SM-3P Plug and USB Charging Cable. This battery is designed for various RC vehicles, including DE43, DE60, 9500E, 9309E RC cars, trucks, and Huina 1575 RC engineering vehicles. Please read this manual thoroughly before use to ensure proper operation and longevity of the product.

2. Safety Instructions

Lithium-ion batteries require careful handling. Failure to follow these safety guidelines can result in fire, personal injury, or property damage.

- **Do not overcharge or over-discharge:** Always use the provided USB charging cable, which features an intelligent charging management IC to prevent overcharging.
- **Do not short circuit:** Avoid connecting the positive and negative terminals directly.
- **Avoid physical damage:** Do not puncture, drop, or expose the battery to strong impacts.
- **Temperature control:** Do not expose the battery to extreme temperatures (above 60°C / 140°F or below 0°C / 32°F). Do not charge or store in direct sunlight or near heat sources.
- **Water exposure:** Keep the battery away from water and moisture.
- **Disposal:** Dispose of batteries responsibly according to local regulations. Do not dispose of in household waste.
- **Supervision:** Always supervise the battery during charging.
- **Children:** Keep batteries out of reach of children.

3. Package Contents

Verify that all items are present in your package:

- 1 x BLLRC 7.4V 3000mAh Li-ion Battery
- 1 x USB Charging Cable with SM-3P Plug



Image: The BLLRC 7.4V 3000mAh Li-ion battery, showing its SM-3P connector and wiring.

4. Specifications



Image: Detailed view of the battery with its dimensions and key specifications labeled.

Battery Voltage	7.4V
Battery Capacity	3000mAh
Discharge Rate	15C
Battery Configuration	2S

Battery Weight	100g (approx.)
Battery Dimensions	70 x 37 x 19 mm (2.75 x 1.45 x 0.74 inches)
Charging Connector	SM-3P Plug
Battery Chemistry	Lithium-Polymer (Li-ion)
USB Charger Output	7.4V 800mA (1A input)

5. Setup and Charging

5.1 Initial Setup

Before first use, ensure the battery is fully charged. Connect the battery to your RC vehicle's battery compartment, ensuring the SM-3P plug is securely inserted. Refer to your RC vehicle's manual for specific battery installation instructions.

5.2 Charging Instructions

Use only the provided USB charging cable to charge the battery. The charger features an intelligent IC to prevent overcharging.

1. Connect the USB charging cable to a standard USB power source (e.g., computer USB port, USB wall adapter).
2. When the USB charger is powered on but not connected to a battery, the red light remains on, and the green light flashes 7-8 times before turning off, indicating normal power-on.
3. Connect the SM-3P plug of the battery to the charging cable's connector.
4. During charging, the red light on the USB charger will remain on, and the green light will flash.
5. Once the battery is fully charged, the red light will turn off, and the green light will remain steadily on. Disconnect the battery from the charger once charging is complete.



Image: The USB charger connected to a power source, showing the green light on and red light off, indicating charging is finished.

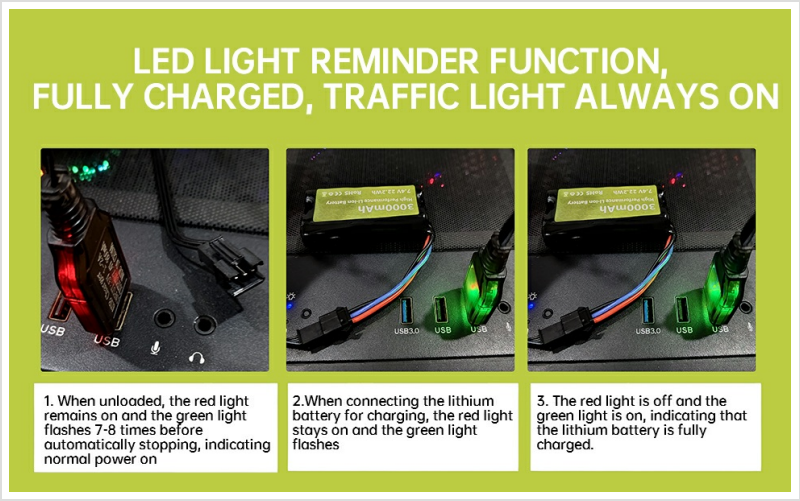


Image: Diagram illustrating the LED indicator functions of the USB smart charger during power-on, charging, and full charge states.

6. Operating Instructions

Once the battery is fully charged and securely installed in your RC vehicle, you can begin operation. This battery is compatible with a wide range of RC models, including:

- DE43, DE60, 9500E, 9309E RC Cars and Trucks
- Huina 1575 RC Engineering Vehicles
- Most RC cars, RC toy cars, RC stunt cars, electric toy cars, RC boats, and RC drones that use a 7.4V Li-ion battery with an SM-3P plug.

Always refer to your specific RC vehicle's instruction manual for detailed operating procedures.

7. Maintenance

Proper maintenance extends the life of your battery:

- **Storage:** Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to store Li-ion batteries at approximately 50-60% charge.
- **Cleaning:** Keep the battery and its connectors clean and free from dust or debris. Use a dry, soft cloth for cleaning.
- **Inspection:** Regularly inspect the battery for any signs of damage, swelling, or leakage. Discontinue use immediately if any damage is observed.
- **Charging Cycle:** Avoid frequent full discharges. Partial discharges and charges are generally better for Li-ion battery longevity.

8. Troubleshooting

If you encounter issues with your battery, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Battery not charging	Loose connection, faulty USB power source, damaged charging cable/battery.	Ensure all connections are secure. Try a different USB power source. Inspect the charging cable and battery for visible damage. If damaged, discontinue use and replace.

Short operating time	Battery not fully charged, battery degradation, high power consumption by RC vehicle.	Ensure the battery is fully charged (green light steady on). Over time, all rechargeable batteries degrade; consider replacing if performance significantly drops.
Battery swelling or overheating	Overcharging, internal damage, manufacturing defect.	**Immediately discontinue use and safely dispose of the battery. This indicates a serious safety risk. Do not attempt to charge or use a swollen battery.**

9. Warranty and Support

For warranty information or technical support, please refer to the retailer where you purchased this product or contact BLLRC customer service through their official channels. Keep your proof of purchase for warranty claims.

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